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**Título:** Dynamics Of Combustion Systems

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**Sinopsis**

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Combustion systems are confined fields of compressible fluids where exothermic processes of combustion take place, subject to boundary conditions imposed at its borders. The subject of Dynamics of Combustion Systems is presented in three parts:

Part 1. Exothermicity - considering the thermodynamic effects due to evolution of exothermic energy in a combustion system

Chapter 1. Thermodynamic Aspects

Chapter 2. Evolutionary Aspects Chapter 3. Heat Transfer Aspects Chapter 4. Chemical Kinetic Aspects

Part 2. Field- exposing the dynamic properties of flow fields where the exothermic energy is deposited

Chapter 5. Aerodynamic Aspects Chapter 6. Random Vortex Method Chapter 7. Gasdynamic Aspects Chapter 8. Gasdynamic Fronts

Part 3. Explosions - revealing the dynamic features of fields and fronts due to rapid deposition of exothermic energy